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Switching device based on wave function size change **Size Regulating Systems**

Abstract

A ~~The invention concerns a method and a device for swfitching in computing, electronics, optoelectronics, detection etc. Wherein, wherein the switching state is relatereled to change in electrielectrical charge distribution denoted as --particle wave function size in space. Each wave function size indicates a different switched switching state. The switchedswitching states are changed by energy received or transmitted by the particle. This switching method can operate hat room temperature. Preferred embodimentembodiments include layers 52 and 58 that have a common cross--section, and a silicon oxide insulators layer 56. A voltage bias is applied to Aluminum--an aluminum-based metallic contact 60 relative to contact 62--the. The potential differenceen--difference on opposites sides of layer 52 raised--and increasedincreases the kinetic energy inside layer 52, which is made of --silicon with phosphoreousphosphorus dopants--electrons. The electron wave function inside layer 52 expandexpands into silicon layer 58; the expanded electrielectrical charge distribution in layer 58 --changedchanges the potential difference between Aluminum aluminum-based metallic contacts 68,70 and changed--changes the conduction current in Aluminumaluminum conductor 64.~~

References Cited [Referenced By]

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Description

Background Of The Inventionof the invention

1. Field of invention

The present invention ~~relate to~~concerns switching methods for computers and